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ART 34 AMDT

This form of embodiment, with rollers capable of oscillating, tends to cause a more complete faying surface of the track/ground contact point, on which the vehicle must move, with an improved traction/thrust capacity of the crawler. This type of arrangement of the supporting rollers 2 is normally defined as "floating bogie".

A series of soles or skids 4 is applied to the chain 1, which can be of various kinds and which must ensure both adherence to the ground to transmit the tensile strength and also the distribution and sustenance of the weight of the crawler on the ground. The shock absorber-tightening group 5 is connected to the axis of the front wheel 3, opposite the crawler wheel. This general scheme shows a traditional track-tightening device in which the idler wheel 3 is assembled on supports 8 which allow it to move in a longitudinal direction with respect to the undercarriage structure, the elastic shock absorber 9 is indicated as a propeller spring which operates under compression and a tightener as a grease cylinder 10. For the tightening and shock absorbing function, spring, oleodynamic, pneumatic devices have been proposed and also grease, floating piston devices integrated with each other by means of various structure either separate or integrated with each other each time, with solutions which satisfy all the individual performance requirements

# CLAIMS

1. A track-tightening device for crawlers, comprising an undercarriage or bogie consisting of a structure (20) which includes elements (21) for carrying the lower supporting rollers (2), as well as the idler back-pull wheels and possibly also the crawler wheel, said structure (20) housing a guide system (25) for the controlled axial sliding of the track-tightening device (5) carried by a structure (8) equipped with fittings (26) with the guides (25) and supporting the idler wheel (3) to modify the wheel base of the front and back wheels of the bogie, characterized in that the movable structure (8) also carries at least one movable supporting roller (22), capable of following the longitudinal movement of the idler wheel (3), always remaining at the same distance therefrom under any operating condition and with any range of the track-tightening device.
2. The track-tightening device for crawlers according to claim 1, characterized in that the movable structure (8) carries two or more movable supporting rollers (22).
3. The track-tightening device for crawlers according to claim 2, characterized in that the movable structure (8) carries two or more movable supporting rollers (22) with a floating bogie arrangement.
4. The track-tightening device for crawlers according

to claim 1, characterized in that the idler wheel (3) is installed on the bogie in a front position.

5. The track-tightening device for crawlers according to claim 1, characterized in that the movable supporting  
5 rollers have the same structure and dimension as the fixed supporting rollers (2).

6. The track-tightening device for crawlers according to claim 1, characterized in that the track-tightener (5) is activated with a tightener/shock absorber group (30)  
10 which comprises a helicoidal spring (36), which operates in extension, and a chamber (38) filled with the injection of a lubricant which acts as an adjustable run end and tightener of the chain (1) of the track.

7. The track-tightening device for crawlers according  
15 to claim 6, characterized in that the tightener/shock absorber group (30) comprises calibration means of the longitudinal position of the fixed shoulder (34) of the helicoidal spring (36) with respect to the structure (20) of the undercarriage.

20 8. The track-tightening device for crawlers according to claim 6, characterized in that the tightener/shock absorber group (30) comprises a cylindrical telescopic guide (31/32) coaxial with the helicoidal spring (36) and with the lubricant injection chamber (38).

25 9. The track-tightening device for crawlers according

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to claim 6, characterized in that the tightener/shock absorber group (30) comprises a helicoidal spring (36) and with the lubricant injection chamber (38) separate and arranged in series on the same axis.

- 5 10. The track-tightening device for crawlers according to claim 6, characterized in that the tightener/shock absorber group (30) comprises a helicoidal spring (36) and with the lubricant injection chamber (38) separate and arranged on parallel axes.

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